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ROY F. WESTON, INC.  
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15 September 1992

Mr. Wayde Hartwick  
Remedial Project Manager  
U.S. Environmental Protection Agency  
77 West Jackson Boulevard  
Chicago, Illinois 60604

U.S. EPA Contract No.: 68-W8-0089

Work Assignment No.: 09-5PJ7/American Chemical Services

Document Control No.: 4500-09-AFVZ

Subject: Human Health Risk-Based Cleanup Levels

Dear Mr. Hartwick:

As you requested during our 15 September 1992 phone conversation, Roy F. Weston, Inc. (WESTON®) has corrected the typographical error in the cleanup level for isophorone that appeared in Table 1 of WESTON's 9 September 1992 submission.

If you have any questions or comments, please do not hesitate to call.

Very truly yours,

ROY F. WESTON, INC.

Thomas P. Graan  
Risk Assessment Specialist

James M. Burton, P.E.  
Site Manager

TPG:JMB:ll  
Attachments

Table 1

**Human Health Risk-Based Groundwater Cleanup Standards: Upper Aquifer  
American Chemical Services Site  
Griffith, Indiana**

Chemical	Reasonable Maximum Exposure Point Concentration (mg/L)	CLP Contract Required Quantitation Limit (CRQL) (mg/L)	Background Concentration (mg/L)	Maximum Contaminant Level (MCL) (mg/L)	Proposed MCL (mg/L)	Risk-Based Cleanup Level <sup>1</sup> (mg/L)	
						Future On-Site Resident	Current Off-Site Resident
<b><u>Part A - Carcinogenic</u></b>							
Benzene	100	0.01	—	0.005	—	0.0019	0.0077
Vinyl Chloride	0.72	0.01	—	0.002	—	0.000034	0.00025
total PCBs	0.0296	0.001	—	0.0005	—	0.0000039	0.000062
bis(2-Chloroethyl)ether	0.25	0.01	—	—	—	0.00006	0.021
Arsenic*	0.0432	0.01 <sup>2</sup>	—	0.05 <sup>3</sup>	—	0.000045	0.0088
Tetrachloroethene	0.2	0.01	—	0.005	—	0.0013	0.008
Methylene Chloride	0.38	0.01	—	0.005	—	0.0053	0.0093
Chloromethane	0.068	0.01	—	—	—	0.004	0.0084
Beryllium	0.00025	0.005 <sup>2</sup>	—	0.004	—	0.000018	—
Trichloroethene	0.045	0.01	—	0.005	—	0.0041	0.024
bis(2-Ethylhexyl)phthalate	0.05	0.01	—	0.006	—	0.0058	—
Cyclic Ketones	0.092	—	—	—	—	0.014	0.0058
Pentachlorophenol	0.003	0.025	—	0.001	—	0.0068	—
1,4-Dichlorobenzene	0.01	0.01	—	0.075	—	0.0033	—
Isophorone	0.035	0.01	—	—	—	0.019	—
<b><u>Part B - Noncarcinogenic</u></b>							
2-Butanone	220	0.01	—	—	—	1.4	24
4-Methyl-2-pentanone	54	0.01	—	—	—	0.71	0.64

Table 1 (Continued)

Human Health Risk-Based Groundwater Cleanup Standards: Upper Aquifer  
American Chemical Services Site  
Griffith, Indiana

Chemical	Reasonable Maximum Exposure Point Concentration (mg/L)	CLP Contract Required Quantitation Limit (CRQL) (mg/L)	Background Concentration (mg/L)	Maximum Contaminant Level (MCL) (mg/L)	Proposed MCL (mg/L)	Risk-Based Cleanup Level <sup>1</sup> (mg/L)	
						Future On-Site Resident	Current Off-Site Resident
Non-Cyclic Acids	1.1	—	—	—	—	0.024	0.28
Acetone	99	0.01	—	—	—	2.9	2.3
Branched Alkanes	0.72	—	—	—	—	—	0.21
Ethylbenzene	1.1	0.01	—	0.7	—	—	0.39
Thallium	0.004	0.01 <sup>2</sup>	—	0.002	—	0.0024	—
Dimethyl Ethyl Benzenes	0.4	—	—	—	—	—	0.25
1,2-Dichloroethene (cis)	0.4	0.01	—	0.07	—	0.29	0.33
Manganese	4.25	0.015 <sup>2</sup>	0.31	—	—	3.3	—
4-Methylphenol	2.2	0.01	—	—	—	1.7	—
Arsenic*	0.0432	0.01 <sup>2</sup>	—	0.05 <sup>3</sup>	—	0.036	—
1,1-Dichloroethane	2.4	0.01	—	—	—	2.2	—

\* Chemical appears in both Part A and Part B of table.

<sup>1</sup> Cleanup level is based either on carcinogenic risk (Part A of table) or on noncarcinogenic risk (Part B of table).

<sup>2</sup> Contract Required Detection Limit (CRDL).

<sup>3</sup> MCL under review.